PATENT ABSTRACTS OF JAPAN

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(54) VOICE RECOGNITION DEVICE AND DICTIONARY FOR THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To easily cope with voice recognition for an aplication in which alphabets have to be inputted by registering reading of an alphabet with reading of continuous two sounds based on the arrangement of 26 characters.

SOLUTION: Reading of an alphabet is registered in a dictionary with the continuation of two sounds. That is, reading of an alphabet is registered in the dictionary with continuation of two sounds of the alphabet and an alphabet continuous to it being in the 26 characters. For example, registration are performed like A: ei bi:, B: bi: si:, Z: zed ei. As a result, alphabets are almost correctly recognized and since a user is not needed to remember a new word such as 'A: an apple' and it is sufficient for him to remember the arrangement of 26 characters of alphabets, the load on him is remarkably reduced. In this case, the dictionary can be constituted by making registration by the conventional registrating method and the registration by the continuation of two sounds coexist in it. Moreover, it is possible to use the dictionary of the registration of the continuation of two sounds in small letters and to use the discretionary by a conventional registrating method in capital letters.
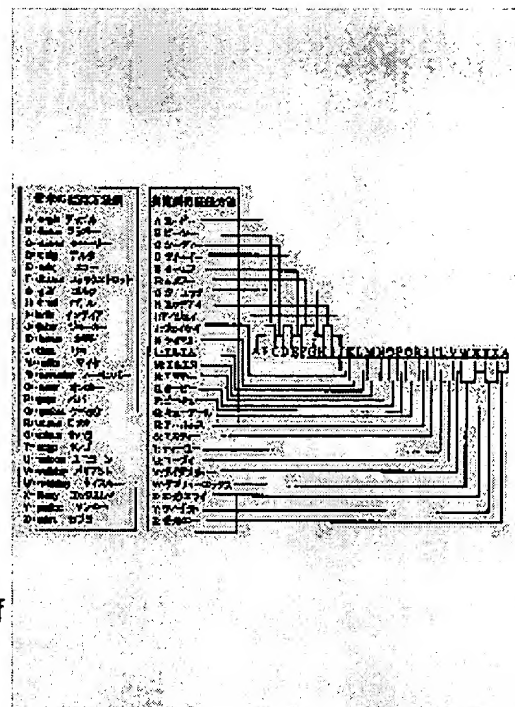
LEGAL STATUS

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to a voice recognition unit.
[0002]
[Description of the Prior Art] A short word like an alphabet single character for a voice recognition unit cannot catch the description of syllable easily, and its probability of incorrect recognition is high. For example, recognition equipment is hard to distinguish a word which people may hear by telephone that are T, P, and L like M and N, and is not understood. for this reason, the former -- "-- A:Apple Computer" -- "-- B: -- bravo -- " -- "-- like C:Charley", it is allocation and its reading and the longer word was registered into recognition equipment.
[0003]
[Problem(s) to be Solved by the Invention] Remarkable difficulties are taken to memorize all 26 characters in case of the conventional approach mentioned above. This invention aims at offering the dictionary used for there [the voice recognition unit and there] the recognition input of an alphabet English character ensured there.
[0004]
[Means for Solving the Problem] Although there is much pronunciation which was alike when an alphabet single character was read as it was, if this is registered by reading of the second sound of a continuation on the basis of the list of 26 characters as follows, it can recognize almost correctly.
[0005]
A: EBIB: BISHIC: C dee D: DIIE: IEFUF: EFUJIG: G dirty H : Dirty eye I: Eye JIEIJ: Jay Kay K: KEIERUL: -- ERUEMU M:EMUENU N:ENUO O:Opie P: -- PIKYU -- Q:queue R R:R S S:S tea -- T:tea you U:you buoy V:buoy W -- W:W X X:X wye Y:Wai ZETT Z: -- ZETTOE -- moreover According to this approach, a user does not need to memorize a new word, and he is that as used in the field of only by memorizing the list of 26 characters, and there are very few burdens and he ends.
[0006]
[Embodiment of the Invention] One example which starts this invention below is explained based on a drawing.
[0007] Drawing 1 shows the configuration of the voice recognition unit of this invention example. The microphone (Media Interface Connector) 21 and the personal computer 22 are connected to the voice recognition unit.
[0008] Speech recognition of the sound signal 1 inputted from Media Interface Connector11 is carried out with the speech recognition chip 2, and it is inputted into CPU4 as a processor of a computer by the result as a speech recognition result 3. Between this CPU4 and personal computer 12, the exchange of reception / recognition result 5 of a dictionary is made by the communication line.
[0009] The voice dictionary 6 consists of dictionaries of 1-100, as shown in drawing. The well-known dictionary of the voice dictionary itself is usable.
[0010] CPU4 emits the dictionary switch operator command 7, and can make the voice dictionary 6 switched to the dictionary switch section 8. 1 of a voice dictionary is for recognizing an alphabet single character, as mentioned later.
[0011] The collating 9 of a dictionary is made between the speech recognition chip 2 and the dictionary switch section 8.
[0012] Drawing 2 is drawing showing the dictionary registration approach of an alpha character. The conventional example of the registration approach is shown in left-hand side, and the registration approach of this invention example

is shown in right-hand side.

[0013] This approach can carry out dictionary registration of the reading of the alphabet by second-sound continuation, and can make the recognition input of an English single character a positive thing. That is, dictionary registration of the reading of the alphabet is carried out by second-sound continuation of the alphabet concerned and the alphabet following it of the 26 characters. In this case, the registration and the registration of second-sound continuation by the conventional registration approach can be made intermingled, and a dictionary can be constituted. Moreover, the alphabet of a small letter can use a second-sound repeat-registration dictionary, and the alphabet of a capital letter can use the dictionary by the conventional registration approach, for example.

[0014]

[Effect of the Invention] According to this invention, speech recognition correspondence to the application which must input the alphabet can be made easy by registering by reading of the second sound of a continuation on the basis of the list of 26 characters.

[Translation done.]
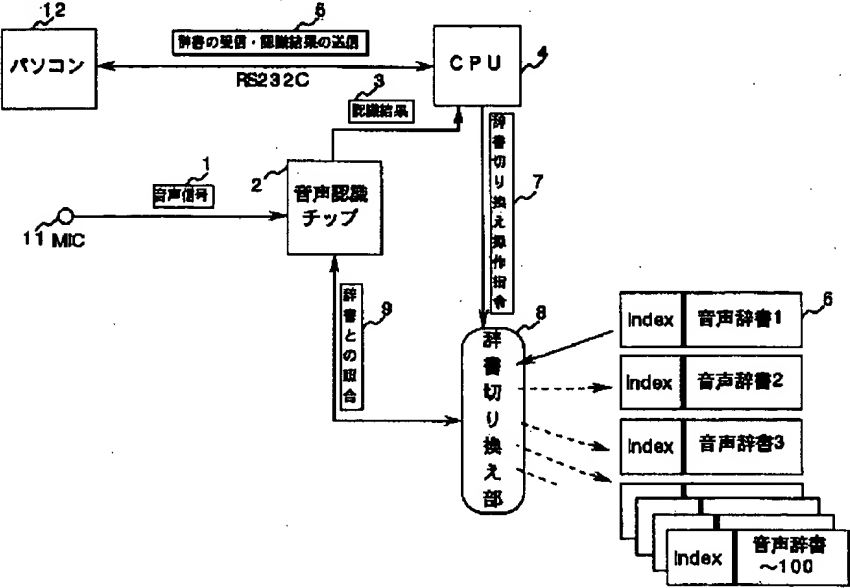
DRAWINGS

[Drawing 1]

[Drawing 2]
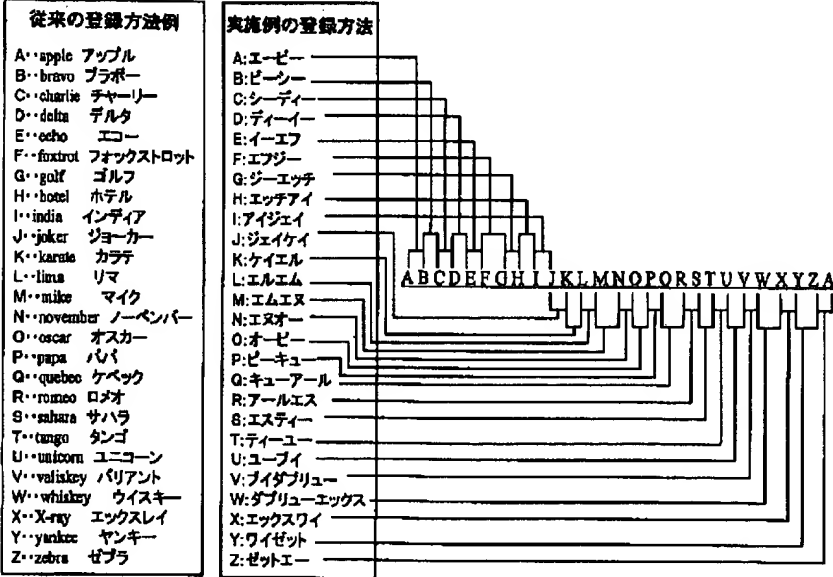
DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] It is the block diagram of the example of this invention.
[Drawing 2] a part of drawing 1 -- it is detail drawing.
[Description of Notations]
1 [-- CPU, 6 / -- The voice dictionaries 1-100, 7 -- dictionary switch operator command, 8 / -- The dictionary switch section 9 / -- Collating with a dictionary 11 / -- A microphone (Media Interface Connector), 21 / -- Personal computer] -- A sound signal, 2 -- A speech recognition chip, 3 -- A recognition result, 4

[Translation done.]

CLAIMS

[Claim(s)]
[Claim 1] The voice recognition unit characterized by carrying out dictionary registration of the reading of the alphabet by second-sound continuation of the alphabet following it of the alphabet concerned and the alphabet of 26 characters.
[Claim 2] The dictionary for voice recognition units characterized by registering reading of the alphabet by second-sound continuation of the alphabet concerned and the alphabet following it of the 26 characters.
[Claim 3] In claim 2 registration of said second-sound continuation About each alphabet, A: EBIB: